

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 E21B33/13 C04B28/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 E21B C04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, WPI Data, PAJ, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 200204 Derwent Publications Ltd., London, GB; Class A93, AN 2002-028940 XP002295616 & JP 2001 146457 A (DENKI KAGAKU KOGYO KK) 29 May 2001 (2001-05-29) abstract	1,2,5,6
X	DATABASE WPI Section Ch, Week 199209 Derwent Publications Ltd., London, GB; Class A93, AN 1992-072444 XP002296443 & ZA 9 100 876 A (SNASHALL H T) 24 December 1991 (1991-12-24) abstract	1,2,4,5

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

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- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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Date of the actual completion of the international search

16 September 2004

Date of mailing of the international search report

30/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Zimpfer, E

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 271 350 A (AMERICAN CYANAMID CO) 13 April 1994 (1994-04-13) page 6 - page 9 -----	1-11
A	WO 01/74967 A (HEYING THEODORE L) 11 October 2001 (2001-10-11) page 4, line 5 - line 20 page 12 - page 13 -----	1-11
A	EP 0 530 768 A (HOECHST AG) 10 March 1993 (1993-03-10) page 3 - page 5 -----	1-11
A	US 4 664 816 A (WALKER CLARENCE O) 12 May 1987 (1987-05-12) column 4 - column 5 -----	9,10

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2001146457	A	29-05-2001	NONE	
ZA 9100876	A	24-12-1991	NONE	
GB 2271350	A	13-04-1994	AU 657637 B2 AU 4610093 A CA 2105428 A1 DE 4329825 A1 FR 2695383 A1 JP 6218351 A ZA 9306517 A	16-03-1995 10-03-1994 05-03-1994 07-04-1994 11-03-1994 09-08-1994 11-10-1994
WO 0174967	A	11-10-2001	AU 4575001 A WO 0174967 A1 US 2002040812 A1	15-10-2001 11-10-2001 11-04-2002
EP 0530768	A	10-03-1993	AT 133928 T BR 9203431 A CZ 9202743 A3 DE 59205287 D1 EP 0530768 A1 ES 2083041 T3 JP 5201756 A MX 9205038 A1 US 5387626 A	15-02-1996 06-04-1993 17-03-1993 21-03-1996 10-03-1993 01-04-1996 10-08-1993 30-07-1993 07-02-1995
US 4664816	A	12-05-1987	NONE	